COURSE DETAIL

FIELD METHODS IN ENVIRONMENTAL SUSTAINABILITY
Country Netherlands
Host Institution Leiden University College
Program(s) Leiden University College
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies
UCEAP Course Number 180
UCEAP Course Suffix
UCEAP Official Title FIELD METHODS IN ENVIRONMENTAL SUSTAINABILITY
UCEAP Transcript Title FIELD METHODS ENV S
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This is an intensive 7-day course that takes place after the spring semester has ended, focusing on practical exercises in recording environmental key parameters, subsequent data evaluation, and report writing. The training of skills is embedded in a context of learning about foundational landscape processes and legacies of human impact in a high-mountain environmental setting, and resulting implications for developing forward-thinking concepts of sustainable land use under climate change. The course introduces students to different types of field methods and techniques used in environmental Earth sciences. The methods taught are widely applied in a variety of fields of environmental sciences such as hydrology, ecology, geomorphology, pedology, and land planning. This kind of information is further used in international development, agricultural sciences, natural resource management, and engineering. At the content level, the tfield methods taught are employed to develop an understanding of the interdependencies of subsurface (geology, soils, groundwater) and surface systems (vegetation, land use, natural hazards) using the example of a high mountain environment. More specifically, the course explores the current state of a select range of landscape functions, their evolution over time, and options for developing sustainable land use strategies and hazard management. The scope includes accounting for climate change, which demonstrably already does alter the boundary conditions for ecosystem service functions. This challenges existing concepts of sustainable land use by agriculture and tourism in the area under study. Thus, the course addresses one of the most pressing issues in environmental sciences by connecting climate change and questions of sustainable land uses and hazard prevention. Recommended prerequisite for this course is an introductory sustainability or earth systems science course.

Language(s) of Instruction
English

Host Institution Course Number

Host Institution Course Title
SUMMER FIELD SCHOOL: FIELD METHODS IN ENVIRONMENTAL SUSTAINABILITY

Host Institution Course Details
Host Institution Campus LUC The Hauge- Level 2
Host Institution Faculty
Host Institution Degree
Host Institution Department Earth, Energy, and Sustainability
Course Last Reviewed

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